

Location and Operating Principle:

The Probe position is next to the counter, on the top shoulder of the meter body, protected with a removable plastic cover (See "A" opposite). The volt free pulse is generated from the counter rotation, which has a two pole circular magnet fitted to the end roller. As the magnet rotates and opposite poles pass the reed switch, it pulls the reed contacts together. This produces 2 pulses per revolution of the end roller. Where there are 4 red rollers, (15mm and 20mm size), this will generate 1 Pulse / 0.5 Litre

1 2 3 4 0 0 0 0

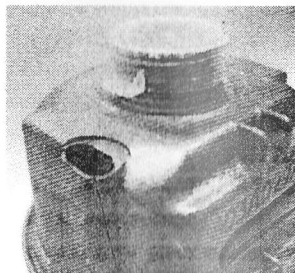
Where there are 3 red rollers, (25mm, 30mm and 40mm size), this will generate 1 Pulse / 5.0 Litre.

1 2 3 4 5 0 0 0

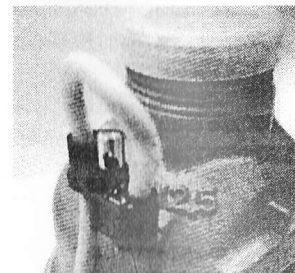
Probe Fitting Instructions:

Remove and discard the plastic protective plug. Insert the probe into the socket and align with screw hole.

Fit the retaining screw through the hole in the probe. (The reed switch within the probe is self-positioning, with the screw firmly in place). (See "B" opposite). To prevent unauthorised interference, the screw head can be security lock-wired to the meter body with copper wire and a lead seal, making the probe installation completely amperproof.



"A" Probe location position under protective plug.



"B" Probe fitted and screwed in place with security screw.

Cable Identification and Wiring Details:

The factory fitted cable used for the T-Probe is defined as 4 x 7 / 0.2 mm with Red, Blue, Black and Yellow as the core colours, contained within a white outer sheath.

There are 2 wiring variants available, identified as follows:

Common Loop-Back: "TL1" Product Code: RR1LRBX005X

Separate Loop-Back: "TL2" Product Code: RR1LRTX005X

(Standart Version)

For "TL1" variant, the BLACK and YELLOW cores are the volt free pair.

The loop-back is accross RED and YELLOW cores. The Blue core can be cut back and discarded, as it is not connected.

For "TL2" variant, the RED and BLUE cores are the volt free pair. The loop-back is across the BLACK and YELLOW cores. These connections are not otherwise polarity sensitive.

Note: The reed switch assembly is rated at 50 Vdc maximum working. The duty cycle of the switch closure is typically 70% on, 30% off.

Health and Safety at Work Act 1974

1. We wish to inform you that in accordance with Section 6 of the above Act, we take every care, as far as is reasonably practicable to ensure that our products are safe without risk to health when properly handled, transported, installed, used, maintained and disposed. However, as manufacturers and suppliers of a wide range of products, we would advise you that related information for these products will be found in the following literature.

- Regulations (such as the COSHH Regulations, Manual Lifting Regulations, Personal Protective Equipment Regulations), British Standards and other applicable ISO and European Specifications and Codes of Practice, as applicable to the intended application of the products.
- Regulations for electrical equipment of buildings (published by the Institution of Electrical Engineers).
- Catalogues and product leaflets of this Company or literature wich may be obtained by specific request to the Company.

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2. It is important that the products concerned should be installed, handled, transported, commissioned and maintained by, or under the supervision of, competent persons in accordance with good engineering practice and:
- IEE Regulations for the electrical equipment of buildings.
 - Regulations, British, European, ISO and other standards. specifications and Codes of Practice, as applicable to the intended application of products, i.e. Water Supply By-Laws.
 - Statutory Requirements.
 - Any instructions specifically advised by the Company and, where appropriate, with particular reference to information marked on the product. The product must only be used in the condition supplied or specified by the Company, without modification, and for the purpose for which it was designed.
3. In accordance with your statutory duties to employees and other persons, you are therefore requested to take such steps as are necessary to ensure that any appropriate information relevant to our products is made available by you to everyone concerned. The Company takes no responsibility for any failure to comply with the above guidelines.

V100 & V110 T-PROBE
INSTALLATION INSTRUCTIONS



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The Company's policy is one of continuous improvement and the right is reserved to modify the specifications without notice.

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The Kent Range of Metering Products T-Probe

For retro-fitting to V100 and V110 meters

Most V100 and V110 meters have the probe location hole in the body and a driving magnet fitted. V100 or V110 meters without this facility cannot be retro-fitted with a T-probe.

The brass bodied v100 (Kent PSM) and some versions of the thermoplastic V110, can be specified with the facility for a magnetically operated (reed switch) pulsed output, by the retrofitting of a dedicated probe assembly.

The probe is fitted with a 100 series resistor to protect the reed switch from power surges and is usually provided with a 5 metre length of cable, terminating in sealed flying lead.

